

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

PARK Jang-Won Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu 135-010 Seoul Republic of Korea



PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) (PCT Rule 71.1)

Date of mailing (day/month/year)

30 August 2005 (30.08.2005)

Applicant's or agent's file reference

PCT/KR 2003/002684

PA/LGE/03488
International application No.

International filing date (day/month/year)

8 December 2003 (08.12.2003)

Priority Date (day/month/year)

IMPORTANT NOTIFICATION

7 January 2003 (07.01.2003)

Applicant

LG ELECTRÔNICS INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the eleceted Offices.
- 3. Where required by any of the elected Offices, the Interational Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the eleceted Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/AT Austrian Patent Office Dresdner Straße 87

A-1200 Vienna/Austria

FAX No. +43 / 1 / 53424-200

Authorized officer

HOFBAUER

Telephone No. +43 / 1 / 53424 - 225

Form PCT/IPEA/416 (January 2004)

PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

PARK Jang-Won Jewoo Bldg. 5th Floor, 200, Nonhyun-Dong, Gangnam-Gu 135-010 Seoul Republic of Korea **PCT**

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) (PCT Rule 71.1)

Date of mailing (day/month/year)

30 August 2005 (30.08.2005)

Applicant's or agent's file reference

PCT/KR 2003/002684

PA/LGE/03488
International application No.

International filing date (day/month/year)

8 December 2003 (08.12.2003)

Priority Date (day/month/year)

IMPORTANT NOTIFICATION

7 January 2003 (07.01.2003)

Applicant

LG ELECTRONICS INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the eleceted Offices.
- 3. Where required by any of the elected Offices, the Interational Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the eleceted Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/AT

Austrian Patent Office Dresdner Straße 87

A-1200 Vienna/Austria

FAX No. +43 / 1 / 53424-200

Authorized officer

HOFBAUER

Telephone No. +43 / 1 / 53424 - 225

Form PCT/IPEA/416 (January 2004)



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T				
PA/LGE/03488	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/month/year)		Priority Date (day/month/year)		
PCT/KR 2003/002684	8 December 2003 (08.12.2003)	7 January 2003 (07.01.2003)		
International Patent Classification (IPC) or nat		•			
	•				
IPC ⁷ : F24F 13/28, 1/00	•				
	<u>,,,,,</u>				
Applicant			·.		
LG ELECTRONICS INC.		•			
This international preliminary exa	mination report has been	prepared by this I	International Preliminary Examination Authority		
and is transmitted to the applicant					
2. This REPORT consists of a total of	of 3 sheets includin	ig this cover shee	.		
2. This REPORT consists of a total of	or _o_ sheets, merudin	ig this cover shee	·		
This report is also accompa	nied by ANNEXES, i.e.,	sheets of the desc	cription, claims and/or drawings which have been		
			ifications made before this Authority (see Rule		
70.16 and Section 607 of the	ie Administrative instructi	ions under the PC			
These annexes consist of a total of	f sheet	: :S.			
3. This report contains indications rel	ating to the following iter	ns:	*		
I. Basis of the opin	ion	•			
II. Priority					
III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV. Lack of unity of	invention				
V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;					
citations and explanations supporting such statement					
VI. Certain documer	nts cited	•			
	1 - 1 - 4 4 1 1		·		
VII. Certain defects in the international application					
VIII. Certain observations on the international application					
			3.		
Date of submission of the demand		Date of complet	ion of this report		
Date of submission of the demand					
04.08.2004		9 A	August 2005 (09.08.2005)		
Name and mailing address of the IPEA/A	ΛT	Authorized office	cer		
Austrian Patent Office	•				
Dresdner Straße 87			LOSENICKY G.		
A-1200 Vienna					
Facsimile No. 1/53424/200		Telephone No.	1/53424/372		
Form PCT/IPEA/409 (cover sheet) (July	1998)				

INTERNATIONAL

LIMINARY EXAMINATION REPORT

Inda	mational application No.	_
	T/KR 2003/002684	

I.		Basis of the report
1.	Wit	h regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:
		pages, as originally filed
		pages, filed with the demand
	•	pages, filed with the letter of
	П	the claims:
	ب	pages, as originally filed
		, - ,
		pages, as amended (together with any statement) under Article 19
		pages, filed with the demand
		pages, filed with the letter of
		the drawings:
	لببا	
		pages, as originally filed
•		pages, filed with the demand
		pages, filed with the letter of
		the sequence listing part of the description:
	_	pages, as originally filed
		name filed with the demand
		pages, filed with the demand pages, filed with the letter of
2.	whi	h regard to the language, all the elements marked above were available or furnished to this Authority in the language in ch the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:
-		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
	<u></u>	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	Ļ	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
		the drawings, sheets/fig
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
i		rement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and
** A	ny re	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.

LIMINARY EXAMINATION REPORT

mational application No. T/KR 2003/002684

Statement			
Novelty (N)	Claims	1-14	YI
	Claims		ŊĊ
Inventive step (IS)	Claims	1-14	YI
	Claims		NO
Industrial applicability (IA	A) Claims	1-14	YI
	Claims		NO

The following documents have been cited in the Search Report:

D1: JP03030847A D2: JP09313855A D3: JP2001276649A

Documents D1 to D3 represent several prior art

Yet neither the references alone nor in combination do teach or suggest the subject-matter of present independent claims 1 and 8 like the features concerning a plasma air dust collector comprising a first electrode fixing unit having a dust collecting electrode power terminal, a second electrode fixing unit arranged with a certain distance from the first electrode fixing unit, at least two dust collecting electrodes as electric conductors installed between the first electrode fixing unit and the second electrode fixing unit in the length direction and connected to the dust collecting electrode power and a discharge electrode as an electric conductor arranged between the dust collecting electrodes in the length direction and connected to the discharge electrode power terminal in order to apply a high voltage.

Dependent claims 2 to 7 and 9 to 14 show preferred realisations of independent claims 1 and 8.

In conclusion, claims 1 to 14 can be considered to be new and to involve an inventive step.

Industrial applicability is given.